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a waveguide • COMSOL can compute propagation constants, impedance, S-parameters • COMSOL also solves the time-harmonic transmission line equation for the electric potential for electromagnetic wave propagation along one-dimensional transmission lines. Typical examples Coaxial cable Optical fibers and waveguides

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device. The flexibility of Comsol Multiphysics makes it possible to construct unified models of EO phenomena including realistic waveguide profiles and anisotropic material properties. We demonstrate the use of the RF Module to compute both RF and optical waveguide modes and calculate the velocity mismatch and overlap

Modeling OAM Transmission in Waveguides with COMSOL Multiphysics A. Cagliero^{1*}, A. De Vita², R. Gaffoglio¹ and B. Sacco² ¹ Department of Physics, University of Torino, Torino, Italy ² Centre for Research and Technological Innovation, RAI Radiotelevisione Italiana, Torino, Italy * Corresponding author: andrea.cagliero@unito.it Abstract: The recent years have witnessed a

Coaxial to Waveguide Coupling. Application ID: 1863. Feeding a waveguide from a coaxial cable is a straightforward way to achieve electromagnetic waves inside a waveguide. Due to its small size and circular shape, the cable contributes significantly to the overall size of the problem. It is therefore necessary to keep the cable as short as ...

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Finally note that we supply these models as COMSOL Multiphysics Model MPH-files so you can import them into COMSOL Multiphysics for immediate execution, allowing you to follow along with these examples every step along the way. Model Library Guide The table below

summarizes key information about the entries in the RF Module Model Library.

Key words: Circular waveguide taper, low mode conversion loss, millimeter waves, COMSOL Multiphysics (RF Module) 1.

INTRODUCTION A tapered waveguide section is often needed in microwave systems for connecting two waveguides of different apertures. The requirement of a waveguide taper is to

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